

**Commonwealth of Kentucky
Natural Resources and Environmental Protection Cabinet
Department for Environmental Protection
Division for Air Quality
803 Schenkel Lane
Frankfort, Kentucky 40601
(502) 573-3382**

**AIR QUALITY
GENERAL PERMIT**

FOR

**NATURAL GAS
TRANSMISSION STATIONS
AND
PROCESSING PLANTS**

Source Name: All Major Source Natural Gas Transmission Stations
(See Attachment A for list of sources covered under
this general permit.)

Permit Type: Federally-Enforceable Title V

Permit Number: G-99-001

SIC Code: 4922

Issuance Date: April 28, 1999

Expiration Date: April 28, 2004

**John E. Hornback, Director
Division for Air Quality**

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SECTION A - PERMIT AUTHORIZATION

Pursuant to a duly submitted application which was determined to be administratively and technically complete, the Kentucky Division for Air Quality hereby authorizes the construction and operation of the equipment described herein in accordance with the terms and conditions of this permit. This permit has been issued under the provisions of Kentucky Revised Statutes Chapter 224 and regulations promulgated pursuant thereto and shall become the final permit unless the United States Environmental Protection Agency files an objection pursuant to State Regulation 401 KAR 50:035, Section 21(3).

The permittee shall not construct, reconstruct, or modify any affected facilities not described herein without having first submitted a complete application and received a permit for the planned activity, except as provided in this permit or in State Regulation 401 KAR 50:035, Permits.

Issuance of this permit does not relieve the permittee from the responsibility of obtaining any other permits, licenses, or approvals required by this Cabinet or any other federal, state, or local agency.

SECTION B - EMISSION POINTS, AFFECTED FACILITIES, APPLICABLE REGULATIONS, AND OPERATING CONDITIONS

[01] Natural Gas Fired Indirect Heat Exchanger unit

Rated heat input capacity: Greater than or equal to 10 million Btu per hour but less than or equal to 100 million Btu per hour, commenced before April 9, 1972

APPLICABLE REGULATIONS: State Regulation 401 KAR 61:015, Existing indirect heat exchangers

1. **Operating Limitations:** NA

2. **Emission Limitations:**

Particulates and Opacity:

The Total Heat Input Capacity (X), in units of millions of Btu's per hour, refers to all affected facilities commenced before April 9, 1972, within the entire source. The emission limitations for particulates are displayed in units of pounds per million Btu, based on a three-hour average.

Priority I: Pursuant to State Regulation 401 KAR 50:020, Air Quality Control Regions, Paducah-Cairo (072), Huntington-Ashland (103), Evansville-Henderson (077) and Cincinnati (079) regions are Priority I regions.

Parameter	Allowable Limit
Particulate Emissions (Pounds/million Btu)	$0.9634 * X^{-0.2356}$
Opacity	20%

Priority II: Pursuant to State Regulation 401 KAR 50:020, Air Quality Control Regions, Bluegrass (102), Appalachian (101), and North Central (104) regions are Priority II regions.

Parameter	Allowable Limit
Particulate Emissions (Pounds/million Btu)	$1.2825 * X^{-0.2330}$
Opacity	40%

SECTION B - EMISSION POINTS, AFFECTED FACILITIES, APPLICABLE

REGULATIONS, AND OPERATING CONDITIONS

Priority III: Pursuant to State Regulation 401 KAR 50:020, Air Quality Control Regions, South Central (105) region is a Priority III region.

Parameter	Allowable Limit
Particulate Emissions (Pounds/million Btu)	$1.3152 * X^{-0.2159}$
Opacity	40%

Sulfur Dioxide:

The Total Heat Input Capacity (X), in units of millions of Btu per hour, refers to that of all affected facilities commenced before April 9, 1972, within the entire source. The emission limitations for sulfur dioxide are displayed in units of pounds per million Btu, based on a twenty-four-hour average.

Kentucky County	Class
McCracken	IA
Bell, Clark, Woodford	II
Pulaski	III
Webster, Hancock	IV
Muhlenberg	IVA
All other counties	V
Boyd	VA

County Class	Allowable Emission Limit (Pounds/million Btu)
IA	$7.7223 * X^{-0.4106}$
II	$8.0681 * X^{-0.3047}$
III	$7.7966 * X^{-0.2291}$
IV	$7.3639 * X^{-0.1347}$
IVA	$7.3639 * X^{-0.1260}$
V	$8.0189 * X^{-0.1260}$
VA	$8.0189 * X^{-0.1260}$

SECTION B - EMISSION POINTS, AFFECTED FACILITIES, APPLICABLE REGULATIONS, AND OPERATING CONDITIONS**Compliance Demonstration Method:**

Compliance with the particulate matter allowable standard shall be demonstrated by calculating particulate matter emissions using fuel usage rate and emission factor information.

Compliance with the sulfur dioxide allowable standard shall be demonstrated by calculating sulfur dioxide emissions using fuel usage rate, fuel analysis, and emission factor information.

Compliance with opacity standard shall be demonstrated by reading the opacity once in every year by EPA Reference Method 9.

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| 3. | <u>Testing Requirements:</u> | NA |
| 4. | <u>Specific Monitoring Requirements:</u> | Refer to Section F. |
| 5. | <u>Specific Recordkeeping Requirements:</u> | Refer to Section F. |
| 6. | <u>Specific Reporting Requirements:</u> | Refer to Section F. |
| 7. | <u>Specific Control Equipment Operating Conditions:</u> | NA |
| 8. | <u>State-Origin Requirements:</u> | NA |
| 9. | <u>Alternate Operating Scenarios:</u> | NA |
| 10. | <u>Compliance Schedule:</u> | Refer to Section F.7 and Section I. |
| 11. | <u>Compliance Certification Requirements</u> | Refer to Section F.7 and Section I. |

SECTION B - EMISSION POINTS, AFFECTED FACILITIES, APPLICABLE REGULATIONS, AND OPERATING CONDITIONS**[02] Natural Gas Fired Indirect Heat Exchanger unit**

Rated heat input capacity: Greater than or equal to 10 million Btu per hour but less than 100 million Btu per hour, commenced on or after April 9, 1972 and prior to June 9, 1989.

APPLICABLE REGULATIONS: State Regulation 401 KAR 59:015, New indirect heat exchangers

1. **Operating Limitations:** NA

2. **Emission Limitations:**

Pollutant	Particulates ⁽¹⁾	Sulfur Dioxide ⁽¹⁾
Emission Limitation (Pounds per million Btu)	$0.9634 * C^{-0.2356}$	$7.7223 * C^{-0.4106}$

C = Total Heat Input Capacity

(1) The Total Heat Input Capacity refers to that of all affected facilities within the entire source.

Opacity:

Emissions shall not exhibit an opacity exceeding 20% except a maximum of 40% shall be permissible for not more than six consecutive minutes in any 60 consecutive minutes during cleaning the fire box or blowing soot.

Compliance Demonstration Method:

Compliance with the particulate matter allowable standard shall be demonstrated by calculating particulate matter emissions using fuel usage rate and emission factor information.

Compliance with the sulfur dioxide allowable standard shall be demonstrated by calculating sulfur dioxide emissions using fuel usage rate, fuel analysis, and emission factor information.

Compliance with opacity standard shall be demonstrated by reading the opacity once in every year by EPA Reference Method 9.

SECTION B -EMISSION POINTS, AFFECTED FACILITIES, APPLICABLE REGULATIONS, AND OPERATING CONDITIONS**3. Testing Requirements:**

Pursuant to State Regulation 401 KAR 59:015, Section 8, compliance with the standards for particulate matter, sulfur dioxide and nitrogen oxides shall be demonstrated upon request from the Division by reference methods contained in 40 CFR 60 Appendix A except as provided in State Regulation 401 KAR 50:045. Exceptions from the reference methods are provided in State Regulation 401 KAR 50:045, Section 3(2):

- (a) The cabinet specifies or approves minor changes in methodology;
- (b) The cabinet specifies or approves the use of some other method the results of which it has determined to be adequate for indicating whether a specific source is in compliance; or
- (c) The cabinet waives the requirement for performance tests because the owner or operator of the affected facility has demonstrated to the cabinet's satisfaction that:
 - 1. The affected facility is in compliance with the applicable standard; or
 - 2. In the case of an existing affected facility, the test cannot be performed by a source due to physical plant limitations or extreme economic burden. The burden of proof for an alleged "economic burden" is to be borne by the source

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| 4. <u>Specific Monitoring Requirements:</u> | Refer to Section F. |
| 5. <u>Specific Recordkeeping Requirements:</u> | Refer to Section F. |
| 6. <u>Specific Reporting Requirements:</u> | Refer to Section F. |
| 7. <u>Specific Control Equipment Operating Conditions:</u> | NA |
| 8. <u>State-Origin Requirements:</u> | NA |
| 9. <u>Alternate Operating Scenarios:</u> | NA |
| 10. <u>Compliance Schedule:</u> | Refer to Section F.7 and Section I. |
| 11. <u>Compliance Certification Requirements</u> | Refer to Section F.7 and Section I. |

SECTION B -EMISSION POINTS, AFFECTED FACILITIES, APPLICABLE REGULATIONS, AND OPERATING CONDITIONS

[03] Natural Gas Fired Indirect Heat Exchanger unit

Rated heat input capacity: Greater than or equal to 10 million BTU per hour but less than 100 million Btu per hour, commenced on or after June 9, 1989

APPLICABLE REGULATIONS: State Regulation 401 KAR 59:015, New indirect heat exchangers

State Regulation 401 KAR 60:043, Standards of performance for small industrial-commercial-institutional steam generating units, incorporating Federal Regulation 40 CFR 60 Subpart Dc by reference

1. **Operating Limitations:** NA

2. **Emission Limitations:**

Pollutant	Particulates ⁽¹⁾	Sulfur Dioxide ⁽¹⁾
Emission Limitation (Pounds per million Btu)	$0.9634 * C^{-0.2356}$	$7.7223 * C^{-0.4106}$

C = Total Heat Input Capacity

(1) The Total Heat Input Capacity refers to that of all affected facilities within the entire source.

Opacity:

Emissions shall not exhibit an opacity exceeding 20% except a maximum of 40% shall be permissible for not more than six consecutive minutes in any 60 consecutive minutes during cleaning the fire box or blowing soot.

Compliance Demonstration Method:

Compliance with the particulate matter allowable standard shall be demonstrated by calculating particulate matter emissions using fuel usage rate and emission factor information.

Compliance with the sulfur dioxide allowable standard shall be demonstrated by calculating sulfur dioxide emissions using fuel usage rate, fuel analysis, and emission factor information.

Compliance with opacity standard shall be demonstrated by reading the opacity once in every year by EPA Reference Method 9.

SECTION B - EMISSION POINTS, AFFECTED FACILITIES, APPLICABLE

REGULATIONS, AND OPERATING CONDITIONS**3. Testing Requirements:**

Pursuant to State Regulation 401 KAR 59:015, Section 8, compliance with the standards for particulate matter, sulfur dioxide and nitrogen oxides shall be demonstrated upon request from the Division by reference methods contained in 40 CFR 60 Appendix A except as provided in State Regulation 401 KAR 50:045. Exceptions from the reference methods are provided in State Regulation 401 KAR 50:045, Section 3(2):

- (d) The cabinet specifies or approves minor changes in methodology;
- (e) The cabinet specifies or approves the use of some other method the results of which it has determined to be adequate for indicating whether a specific source is in compliance; or
- (f) The cabinet waives the requirement for performance tests because the owner or operator of the affected facility has demonstrated to the cabinet's satisfaction that:
 - 2. The affected facility is in compliance with the applicable standard; or
 - 3. In the case of an existing affected facility, the test cannot be performed by a source due to physical plant limitations or extreme economic burden. The burden of proof for an alleged "economic burden" is to be borne by the source.

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| 4. <u>Specific Monitoring Requirements:</u> | Refer to Section F. |
| 5. <u>Specific Recordkeeping Requirements:</u> | Refer to Section F. |
| 6. <u>Specific Reporting Requirements:</u> | Refer to Section F. |
| 7. <u>Specific Control Equipment Operating Conditions:</u> | NA |
| 8. <u>State-Origin Requirements:</u> | NA |
| 9. <u>Alternate Operating Scenarios:</u> | NA |
| 10. <u>Compliance Schedule:</u> | Refer to Section F.7 and Section I. |
| 11. <u>Compliance Certification Requirements</u> | Refer to Section F.7 and Section I. |

SECTION B - EMISSION POINTS, AFFECTED FACILITIES, APPLICABLE REGULATIONS, AND OPERATING CONDITIONS

- [04] 2-Cycle Lean Burn Natural Gas Fired Reciprocating Compressor
 2-Cycle Rich Burn Natural Gas Fired Reciprocating Compressor
 4-Cycle Lean Burn Natural Gas Fired Reciprocating Compressor
 4-Cycle Rich Burn Natural Gas Fired Reciprocating Compressor
 Natural Gas Fired Standby Generator

APPLICABLE REGULATIONS: There are no federally enforceable requirements.

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| 1. | <u>Operating Limitations:</u> | NA |
| 2. | <u>Emission Limitations:</u> | NA |
| 3. | <u>Testing Requirements:</u> | NA |
| 4. | <u>Specific Monitoring Requirements:</u> | Refer to Section F. |
| 5. | <u>Specific Recordkeeping Requirements:</u> | Refer to Section F. |
| 6. | <u>Specific Reporting Requirements:</u> | Refer to Section F. |
| 7. | <u>Specific Control Equipment Operating Conditions:</u> | NA |
| 8. | <u>State-Origin Requirements:</u> | |

State Regulation 401 KAR 63:021, Existing sources emitting toxic air pollutants or State Regulation 401 KAR 63:020, Potentially hazardous matter or toxic substances.

a) Operating Limitations:

If emissions of any air toxics subject to State Regulation 401 KAR 63:021, Existing sources emitting toxic air pollutants, exceed the Adjusted Significant Level (ASL) and Reasonably Available Control Technology (RACT) was required or if emissions of any air toxics listed in previous State Regulation 401 KAR 63:022, New or modified sources emitting toxic air pollutants (repealed January 19, 1999) exceed the Adjusted Significant Level (ASL) and Best Available Control Technology (BACT) was required, the source shall submit the RACT or BACT determination for approval to the Division for Air Quality, Permit Review Branch within six (6) month after becoming subject to this permit.

b) Emission Limitations: NA

c) Reporting Requirements:

The first six (6) month report (required by Section F.5) after the source becomes subject to this permit shall include an applicability determination for this state-origin requirement.

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| 9. | <u>Alternate Operating Scenarios:</u> | NA |
| 10. | <u>Compliance Schedule:</u> | Refer to Section F.7 and Section I. |
| 11. | <u>Compliance Certification Requirements</u> | Refer to Section F.7 and Section I. |

SECTION B - EMISSION POINTS, AFFECTED FACILITIES, APPLICABLE

REGULATIONS, AND OPERATING CONDITIONS**[05] Gas Turbine**

Rated heat input capacity (based on the fuel's lower heating value):

- Equal to or greater than 10 million Btu/hr constructed, reconstructed, or modified on or before October 3, 1977
- Equal to or greater than 10 million Btu/hr and equal to or less than 100 million Btu/hr constructed, reconstructed, or modified on or before October 3, 1982

APPLICABLE REGULATIONS: There are no federally enforceable requirements.

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| 1. | <u>Operating Limitations:</u> | NA |
| 2. | <u>Emission Limitations:</u> | NA |
| 3. | <u>Testing Requirements:</u> | NA |
| 4. | <u>Specific Monitoring Requirements:</u> | Refer to Section F. |
| 5. | <u>Specific Recordkeeping Requirements:</u> | Refer to Section F. |
| 6. | <u>Specific Reporting Requirements:</u> | Refer to Section F. |
| 7. | <u>Specific Control Equipment Operating Conditions:</u> | NA |
| 8. | <u>State-Origin Requirements:</u> | |

State Regulation 401 KAR 63:021, Existing sources emitting toxic air pollutants or State Regulation 401 KAR 63:020, Potentially hazardous matter or toxic substances.

a) Operating Limitations:

If emissions of any air toxics subject to State Regulation 401 KAR 63:021, Existing sources emitting toxic air pollutants, exceed the Adjusted Significant Level (ASL) and Reasonably Available Control Technology (RACT) was required or if emissions of any air toxics listed in previous State Regulation 401 KAR 63:022, New or modified sources emitting toxic air pollutants (repealed January 19, 1999) exceed the Adjusted Significant Level (ASL) and Best Available Control Technology (BACT) was required, the source shall submit the RACT or BACT determination for approval to the Division for Air Quality, Permit Review Branch within six (6) month after becoming subject to this permit.

b) Emission Limitations:

NA

c) Reporting Requirements:

The first six (6) month report (required by Section F.5) after the source becomes subject to this permit shall include an applicability determination for this state-origin requirement.

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| 9. | <u>Alternate Operating Scenarios:</u> | NA |
| 10. | <u>Compliance Schedule:</u> | Refer to Section F.7 and Section I. |
| 11. | <u>Compliance Certification Requirements</u> | Refer to Section F.7 and Section I. |

SECTION B - EMISSION POINTS, AFFECTED FACILITIES, APPLICABLE REGULATIONS, AND OPERATING CONDITIONS

[06] Gas Turbine

Rated heat input capacity: Equal to or greater than 10 million Btu/hr (based on the fuel's lower heating value) constructed, reconstructed, or modified after October 3, 1977 and not included in the emission point [05] of this general permit

APPLICABLE REGULATIONS: State Regulation 401 KAR 60:330, Standards of performance for stationary gas turbines, incorporating 40 CFR 60 Subpart GG, Standards of Performance for Stationary Gas Turbines, by reference

1. Operating Limitations:

The fuel must either have a sulfur content less than or equivalent to 0.8 percent by weight or the flue gas must have sulfur dioxide content less than 0.015 percent by volume at 15 percent oxygen on a dry basis.

Compliance Demonstration Method:

Test methods and procedures described in Condition 3 below shall be followed to demonstrate compliance with this limit.

2. Emission Limitations:

For natural-gas fired non-regenerative cycle units constructed on or after October 3, 1982, designated for non-emergency use, emissions of nitrogen oxides shall be less than that resulting from the following calculation:

$$\text{STD} = 0.0150 * 14.4 / Y + F$$

where STD = Allowable emissions of NOx (% by volume at 15% oxygen on a dry basis)

Y = Manufacturer's rated heat rate at peak load (kilojoules per watt hour)

F = NOx emission allowance for fuel-bound nitrogen, N, as defined in the following table (NOx % by volume)

N (% by weight)	$N \leq 0.015$	$0.015 < N \leq 0.1$	$0.1 < N \leq 0.25$	$N > 0.25$
F	0	$0.04 * N$	$0.004 + 0.0067 * (N - 0.1)$	0.005

SECTION B - EMISSION POINTS, AFFECTED FACILITIES, APPLICABLE REGULATIONS, AND OPERATING CONDITIONS

Compliance Demonstration Method:

As specified in 40 CFR 60.335(c)(1), compliance with the aforementioned limit for NO_x shall be determined by the following formula:

$$\text{NO}_x = \text{NO}_{xo} * (\text{Pr} / \text{Po})^{0.5} * \exp(19 * (\text{Ho} - 0.00633) * (288 / \text{Ta})^{1.53})$$

where NO_x = Emission rate (volume % at 15% oxygen and ISO standard conditions)

NO_{xo} = Observed concentration (ppm by volume)

Pr = Reference combustor inlet absolute pressure at 101.3 kPa ambient (mm Hg)

Po = Observed combustor inlet absolute pressure at test (mm Hg)

Ho = Observed humidity of ambient air (grams H₂O / gram air)

Ta = Ambient temperature (K)

3. Testing Requirements:

Upon request by the Division for Air Quality:

- Test methods in 40 CFR 60 Appendix A shall be utilized to conduct the performance tests required by 40 CFR 60.8.
- As specified in 40 CFR 60.335(c)(2), the fuel consumption and water-to-fuel ratio necessary to comply with 40 CFR 60.332 shall be determined at four points within the normal operating range, using a continuous monitoring device.
- Method 20 shall be used to determine the concentration of NO_x, SO₂, and O₂.
- Pursuant to 40 CFR 60.335(d), the sulfur content of gaseous fuels shall be measured using ASTM method D 1072-80, D 3031-81, D 4084-82, or D 3246-81 or an alternative test method approved on a case-by-case basis by the Division for Air Quality and the U.S. EPA.

4. Specific Monitoring Requirements:

Pursuant to 40 CFR 60.334, Monitoring of operations, the content of sulfur and nitrogen in the fuel shall be monitored. The frequency of determination of these values shall be as follows:

- If a water injection system is used to control NO_x emissions, the owner or operator shall install and operate a continuous monitoring system to monitor and record the fuel consumption and the ratio of water to fired fuel. This system shall be accurate to within ±5.0 percent and shall be approved by the Division. [40 CFR 60.334(a)]
- If a source has been approved to implement a custom fuel monitoring plan, it must follow this approved compliance demonstration method or may apply to the U.S. Environmental Protection Agency and the Division for a new or modified custom fuel monitoring plan, to be reviewed on a case-by-case basis.

5. Specific Recordkeeping Requirements:

Records of the parameters required by the above Condition 4 shall be kept for the purposes of compliance demonstration.

SECTION B - EMISSION POINTS, AFFECTED FACILITIES, APPLICABLE REGULATIONS, AND OPERATING CONDITIONS

6. Specific Reporting Requirements:

Pursuant to 40 CFR 60.334(c), reports shall be submitted for exceedances of operating and emission limitations, defined for the following averaging times:

Parameter	Averaging Time
Water-to-fuel ratio	One-hour period
Sulfur content	Daily period
Emergency fuel usage	Any emergency period

These reports shall be submitted in accordance with the conditions set forth in Section F.5.

7. Specific Control Equipment Operating Conditions: NA**8. State-Origin Requirements:**

State Regulation 401 KAR 63:021, Existing sources emitting toxic air pollutants or State Regulation 401 KAR 63:020, Potentially hazardous matter or toxic substances.

a) Operating Limitations:

If emissions of any air toxics subject to State Regulation 401 KAR 63:021, Existing sources emitting toxic air pollutants, exceed the Adjusted Significant Level (ASL) and Reasonably Available Control Technology (RACT) was required or if emissions of any air toxics listed in previous State Regulation 401 KAR 63:022, New or modified sources emitting toxic air pollutants (repealed January 19, 1999) exceed the Adjusted Significant Level (ASL) and Best Available Control Technology (BACT) was required, the source shall submit the RACT or BACT determination for approval to the Division for Air Quality, Permit Review Branch within six (6) month after becoming subject to this permit.

b) Emission Limitations: NA**c) Reporting Requirements:**

The first six (6) month report (required by Section F.5) after the source becomes subject to this permit shall include an applicability determination for this state-origin requirement.

9. Alternate Operating Scenarios: NA**10. Compliance Schedule:** Refer to Section F.7 and Section I.**11. Compliance Certification Requirements** Refer to Section F.7 and Section I.

SECTION B - EMISSION POINTS, AFFECTED FACILITIES, APPLICABLE REGULATIONS, AND OPERATING CONDITIONS

[07] Glycol dehydration process unit

(absorption column and subject control equipment, if applicable)

APPLICABLE REGULATIONS: There are no federally enforceable requirements.

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| 1. | <u>Operating Limitations:</u> | NA |
| 2. | <u>Emission Limitations:</u> | NA |
| 3. | <u>Testing Requirements:</u> | NA |
| 4. | <u>Specific Monitoring Requirements:</u> | NA |
| 5. | <u>Specific Recordkeeping Requirements:</u> | NA |
| 6. | <u>Specific Reporting Requirements:</u> | NA |
| 7. | <u>Specific Control Equipment Operating Conditions:</u> | NA |
| 8. | <u>State-Origin Requirements:</u> | |

State Regulation 401 KAR 63:021, Existing sources emitting toxic air pollutants or State Regulation 401 KAR 63:020, Potentially hazardous matter or toxic substances.

a) Operating Limitations:

If emissions of any air toxics subject to State Regulation 401 KAR 63:021, Existing sources emitting toxic air pollutants, exceed the Adjusted Significant Level (ASL) and Reasonably Available Control Technology (RACT) was required or if emissions of any air toxics listed in previous State Regulation 401 KAR 63:022, New or modified sources emitting toxic air pollutants (repealed January 19, 1999) exceed the Adjusted Significant Level (ASL) and Best Available Control Technology (BACT) was required, the source shall submit the RACT or BACT determination for approval to the Division for Air Quality, Permit Review Branch within six (6) month after becoming subject to this permit.

b) Emission Limitations:

NA

c) Reporting Requirements:

The first six (6) month report (required by Section F.5) after the source becomes subject to this permit shall include an applicability determination for this state-origin requirement.

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| 9. | <u>Alternate Operating Scenarios:</u> | NA |
| 10. | <u>Compliance Schedule:</u> | Refer to Section F.7 and Section I. |
| 11. | <u>Compliance Certification Requirements</u> | Refer to Section F.7 and Section I. |

SECTION B - EMISSION POINTS, AFFECTED FACILITIES, APPLICABLE REGULATIONS, AND OPERATING CONDITIONS

[08] Storage Vessels for Volatile Organic Liquids (VOL)

Storage Vessels with capacity greater than or equal to 40 m³ (10,567 gallons)

APPLICABLE REGULATIONS:

State Regulation 401 KAR 59:485, Standards of performance for volatile organic liquid storage vessels (including petroleum liquid storage vessels) for which construction, reconstruction, or modification commenced after July 23, 1984, incorporating 40 CFR 60 Subpart Kb, Standards of Performance for Volatile Organic Liquid Storage Vessels (Including Petroleum Liquid Storage Vessels) for Which Construction, Reconstruction, or Modification Commenced after July 23, 1984, by reference.

1. Operating Limitations:

The tanks shall be operated in accordance with 40 CFR 60.112b, Standards for volatile organic compounds, referenced in the attached table (Attachment F) under “VOC Operating/Emission Standards”.

Compliance Demonstration Method:

Compliance shall be demonstrated by monitoring, Recordkeeping and testing requirements as listed below, referenced in the attached table (Attachment F) under “VOC Operating/Emission Standards”, “Monitoring and Recordkeeping Requirements”, “Reporting Requirements” and “Testing Requirements”.

2. Emission Limitations:

N/A

3. Testing Requirements:

Testing shall be performed in accordance with 40 CFR 60.113b, Testing and Procedures, referenced in the attached table (Attachment F) under “Testing Requirements”.

4. Specific Monitoring Requirements:

Monitoring shall be performed in accordance with 40 CFR 60.113b, Testing and procedures, 40 CFR 60.115b, Reporting and Recordkeeping requirements, and 40 CFR 60.116b, Monitoring of operations, referenced in the attached table (Attachment F).

5. Specific Recordkeeping Requirements:

Recordkeeping shall be performed in accordance with 40 CFR 60.113b, Testing and procedures, 40 CFR 60.115b, Reporting and Recordkeeping requirements, and 40 CFR 60.116b, Monitoring of operations, referenced in the attached table (Attachment F).

SECTION B - EMISSION POINTS, AFFECTED FACILITIES, APPLICABLE REGULATIONS, AND OPERATING CONDITIONS

6. Specific Reporting Requirements:

Reporting shall be performed in accordance with 40 CFR 60.113b, Testing and procedures, 40 CFR 60.115b, Reporting and Recordkeeping requirements, and 40 CFR 60.116b, Monitoring of operations, referenced in the attached table (Attachment F).

7. Specific Control Equipment Operating Conditions:

Control equipment shall be operated in accordance with 40 CFR 60.112b, Standards for volatile organic compounds, referenced in the attached table (Attachment F) under “VOC Operating/Emission Standards”.

8. State-Origin Requirements:

State Regulation 401 KAR 63:021, Existing sources emitting toxic air pollutants or State Regulation 401 KAR 63:020, Potentially hazardous matter or toxic substances.

a) Operating Limitations:

If emissions of any air toxics subject to State Regulation 401 KAR 63:021, Existing sources emitting toxic air pollutants, exceed the Adjusted Significant Level (ASL) and Reasonably Available Control Technology (RACT) was required or if emissions of any air toxics listed in previous State Regulation 401 KAR 63:022, New or modified sources emitting toxic air pollutants (repealed January 19, 1999) exceed the Adjusted Significant Level (ASL) and Best Available Control Technology (BACT) was required, the source shall submit the RACT or BACT determination for approval to the Division for Air Quality, Permit Review Branch within six (6) month after becoming subject to this permit.

b) Emission Limitations:

NA

c) Reporting Requirements:

The first six (6) month report (required by Section F.5) after the source becomes subject to this permit shall include an applicability determination for this state-origin requirement.

9. Alternate Operating Scenarios:

NA

10. Compliance Schedule:

Refer to Section F.7 and Section I.

11. Compliance Certification Requirements

Refer to Section F.7 and Section I.

SECTION B - EMISSION POINTS, AFFECTED FACILITIES, APPLICABLE REGULATIONS, AND OPERATING CONDITIONS

[09] Storage Vessels for Petroleum Liquids

All storage vessels for petroleum liquids which have storage capacity greater than 580 gallons and commenced before April 9, 1972 and which are located in a county or portion of a county which is designated ozone nonattainment, for any nonattainment classification except marginal, under State Regulation 401 KAR 51:010, Attainment status designations.

APPLICABLE REGULATIONS:

State Regulation 401 KAR 61:050, Existing storage vessels for petroleum liquids

The table in Attachment G contains applicable requirements for facilities subject to State Regulation 401 KAR 61:050, Existing storage vessels for petroleum liquids. The source shall comply with all applicable requirements identified in the table for affected facilities located at the source.

1. Operating Limitations:

Affected facilities under State Regulation 401 KAR 61:050 shall operate in accordance with the requirements referenced in the attached table (Attachment G).

2. Emission Limitations: NA

3. Testing Requirements:

Affected facilities under State Regulation 401 KAR 61:050 shall be tested in accordance with the requirements referenced in the attached table (Attachment G).

4. Specific Monitoring Requirements:

Affected facilities under State Regulation 401 KAR 61:050 shall be monitored in accordance with the requirements referenced in the attached table (Attachment G).

5. Specific Recordkeeping Requirements:

Affected facilities under State Regulation 401 KAR 61:050 shall keep records in accordance with the requirements referenced in the attached table (Attachment G).

6. Specific Reporting Requirements:

Affected facilities under State Regulation 401 KAR 61:050 shall submit reports in accordance with the requirements referenced in Section F.

SECTION B - EMISSION POINTS, AFFECTED FACILITIES, APPLICABLE REGULATIONS, AND OPERATING CONDITIONS

7. Specific Control Equipment Operating Conditions:

Affected facilities under State Regulation 401 KAR 61:050 shall operate in accordance with the

requirements referenced in the attached table (Attachment G).

- | | | |
|-----|--|-------------------------------------|
| 8. | <u>State-Origin Requirements</u> | NA |
| 9. | <u>Alternate Operating Scenarios:</u> | NA |
| 10. | <u>Compliance Schedule:</u> | Refer to Section F.7 and Section I. |
| 11. | <u>Compliance Certification Requirements</u> | Refer to Section F.7 and Section I. |

SECTION B - EMISSION POINTS, AFFECTED FACILITIES, APPLICABLE REGULATIONS, AND OPERATING CONDITIONS

[10] Storage Vessels for Petroleum Liquids

(1) All the storage tanks which are located in a county or portion of a county which is designated ozone

nonattainment under 401 KAR 51:010 or any other county and is a part of a major source of volatile organic compounds and have storage capacity (V) as described below:

- $580 \text{ gal} \leq V \leq 40,000 \text{ gal}$, commenced after April 9, 1972 and prior to July 24, 1984
- $580 \text{ gal} \leq V < 10,567 \text{ gal}$, commenced after July 24, 1984

(2) $V > 40,000 \text{ gal}$, commenced on or after April 9, 1972 and prior to July 24, 1984

(3) $V > 40,000 \text{ gal}$, commenced on or after May 19, 1972 and prior to July 24, 1984

APPLICABLE REGULATIONS:

State Regulation 401 KAR 59:050, New storage vessels for petroleum products

The table in Attachment H contains applicable requirements for facilities subject to State Regulation 401 KAR 59:050, New storage vessels for petroleum liquids. The source shall comply with all applicable requirements identified in the table for affected facilities located at the source.

1. Operating Limitations:

Affected facilities under State Regulation 401 KAR 59:050 shall operate in accordance with the requirements referenced in the attached table (Attachment G).

2. Emission Limitations: NA

3. Testing Requirements:

Affected facilities under State Regulation 401 KAR 59:050 shall be tested in accordance with the requirements referenced in the attached table (Attachment G).

4. Specific Monitoring Requirements:

Affected facilities under State Regulation 401 KAR 59:050 shall be monitored in accordance with the requirements referenced in the attached table (Attachment G).

5. Specific Recordkeeping Requirements:

Affected facilities under State Regulation 401 KAR 59:050 shall keep records in accordance with the requirements referenced in the attached table (Attachment G).

6. Specific Reporting Requirements:

Affected facilities under State Regulation 401 KAR 59:050 shall submit reports in accordance with the requirements referenced in the attached table (Attachment G).

SECTION B - EMISSION POINTS, AFFECTED FACILITIES, APPLICABLE REGULATIONS, AND OPERATING CONDITIONS

7. Specific Control Equipment Operating Conditions:

Affected facilities under State Regulation 401 KAR 59:050 shall operate in accordance with the requirements referenced in the attached table (Attachment G).

- | | | |
|-----|--|-------------------------------------|
| 8. | <u>State-Origin Requirements</u> | NA |
| 9. | <u>Alternate Operating Scenarios:</u> | NA |
| 10. | <u>Compliance Schedule:</u> | Refer to Section F.7 and Section I. |
| 11. | <u>Compliance Certification Requirements</u> | Refer to Section F.7 and Section I. |

SECTION B - EMISSION POINTS, AFFECTED FACILITIES, APPLICABLE REGULATIONS, AND OPERATING CONDITIONS

Additional Requirements

- 1) Attachment D is a table of applicable requirements for facilities subject to State Regulation 401 KAR 60:630 (40 CFR Subpart KKK) Standards of Performance for Equipment Leaks of VOC from Onshore Natural Gas

Processing Plants. The source shall comply with all applicable requirements identified in the table for the components, emission points and affected facilities located at the source.

- 2) Attachment E contains two tables of applicable requirements for facilities subject to State Regulation 401 KAR 60:640 (40 CFR Subpart LLL) Standards of Performance for Onshore Natural Gas Processing: SO₂ Emissions. One table addresses Sweetening Units utilizing Sulfur Recovery; the other table addresses Sweetening Units not utilizing Sulfur Recovery. The source shall comply with all applicable requirements identified in the table for the facility design located at the source.

SECTION C - INSIGNIFICANT ACTIVITIES

The following listed activities have been determined to be insignificant activities for these sources pursuant to State Regulation 401 KAR 50:035, Permits, Section 5(4). The following are exempt from all permit requirements because the emissions are not subject to federally enforceable requirements or meet the requirements for insignificant activities pertaining to potential to emit. This list is not intended to be all inclusive, other activities may qualify as insignificant activities, provided they meet the criteria under 401 KAR 50:035, Section 5(4). While these activities

are designated as insignificant the permittee must comply with the applicable regulations and some minimal level of periodic monitoring may be necessary.

- 1) Indirect heat exchanger or electrical generator (used for on-site power consumption) solely fired with natural gas with a rated heat input capacity less than 10 million Btu per hour
- 2) Anti-freeze usage for compressor engine cooling
- 3) Metal degreaser (except for those halogenated solvent cleaners subject to the MACT standard in 40 CFR 63, Subpart T)
- 4) Emergency generators less than 20 hp potentially operated continuously or less than 350 hp operated 500 hours per year or less
- 5) Valve operators
- 6) Relief valves
- 7) Purge gas
- 8) Panel board devices
- 9) Meter testing
- 10) Air movers
- 11) Pipeline blowdowns
- 12) Changing orifice plates
- 13) Control valves
- 14) Emergency shutdowns
- 15) Dead weight testing
- 16) Blowing drips
- 17) Crankcase vents
- 18) Fuel gas system vents
- 19) Gas operated pockets
- 20) Vessel blowdowns
- 21) Compressor rod packing leakage
- 22) Odorant loading
- 23) Unit block valve leakage
- 24) Calibrating gas sniffers
- 25) Compressor valve cap leakage
- 26) Recip fuel valve packing leakage
- 27) Drum storage
- 28) Compressor case and doghouse vents
- 29) Small gasoline portable compressors
- 30) Meter tube inspections
- 31) Auxiliary air compressors
- 32) Compressor blowdown
- 33) Storage tanks not otherwise covered in this permit

SECTION D - SOURCE EMISSION LIMITATIONS AND TESTING REQUIREMENTS

NA

SECTION E - SOURCE CONTROL EQUIPMENT OPERATING REQUIREMENTS

Pursuant to 401 KAR 50:055, Section 2(5), at all times, including periods of startup, shutdown and malfunction, owners and operators shall, to the extent practicable, maintain and operate any affected facility including associated air pollution control equipment in a manner consistent with good air pollution control practice for minimizing emissions. Determination of whether acceptable operating and maintenance procedures are being used will be based on information available to the Division which may include, but is not limited to, monitoring results, opacity observations, review of operating and maintenance procedures, and inspection of the source.

SECTION F -MONITORING, RECORDKEEPING, AND REPORTING REQUIREMENTS

1. When continuing compliance is demonstrated by periodic testing or instrumental monitoring, the permittee shall compile records of required monitoring information that include:
 - a. Date, place as defined in this permit, and time of sampling or measurements.
 - b. Analyses performance dates;
 - c. Company or entity that performed analyses;
 - d. Analytical techniques or methods used;
 - e. Analyses results; and
 - f. Operating conditions during time of sampling or measurement;
2. Records of all required monitoring data and support information, including calibrations, maintenance records, and original strip chart recordings, and copies of all reports required by the Division for Air Quality, shall be retained by the permittee for a period of five years and shall be made available for inspection upon request by any duly authorized representative of the Division for Air Quality. [401 KAR 50:035, Permits, Section 7(1)(d)2 and 401 KAR 50:035, Permits, Section 7(2)(c)]

SECTION F -MONITORING, RECORDKEEPING, AND REPORTING REQUIREMENTS (CONTINUED)

3. In accordance with the requirements of Regulation 401 KAR 50:035, Permits, Section 7(2)(c) the permittee shall allow the Cabinet or authorized representatives to perform the following:
 - a. Enter upon the premises where a source is located or emissions-related activity is conducted, or where records are kept;

- b. Have access to and copy, at reasonable times, any records required by the permit:
 - i. During normal office hours, and
 - ii. During periods of emergency when prompt access to records is essential to proper assessment by the Cabinet;
 - c. Inspect, at reasonable times, any facilities, equipment (including monitoring and pollution control equipment), practices, or operations required by the permit. Reasonable times shall include, but are not limited to the following:
 - i. During all hours of operation at the source,
 - ii. For all sources operated intermittently, during all hours of operation at the source and the hours between 8:00 a.m. and 4:30 p.m., Monday through Friday, excluding holidays, and
 - iii. During an emergency; and
 - d. Sample or monitor, at reasonable times, substances or parameters to assure compliance with the permit or any applicable requirements. Reasonable times shall include, but are not limited to the following:
 - i. During all hours of operation at the source,
 - ii. For all sources operated intermittently, during all hours of operation at the source and the hours between 8:00 a.m. and 4:30 p.m., Monday through Friday, excluding holidays, and
 - iii. During an emergency.
4. No person shall obstruct, hamper, or interfere with any Cabinet employee or authorized representative while in the process of carrying out official duties. Refusal of entry or access may constitute grounds for permit revocation and assessment of civil penalties.
5. Reports of any monitoring required by this permit, other than continuous emission or opacity monitors, shall be reported to the Division for Air Quality's Regional Office under whose purview the source is located (as listed in Attachment B) no later than the six-month anniversary date of this permit and every six months thereafter during the life of this permit, unless otherwise stated in this permit. The permittee may shift to semi-annual reporting on a calendar year basis upon approval of the regional office. If calendar year reporting is approved, the semi-annual reports are due January 30th and July 30th of each year. Data from the continuous emission and opacity monitors shall be reported to the Technical Services Branch in accordance with the requirements of Regulation 401 KAR 59:005, General Provisions, Section 3(3). All reports shall be certified by a responsible official pursuant to Section 6(1) of State Regulation 401 KAR 50:035, Permits. All deviations from permit requirements shall be clearly identified in the reports.

SECTION F -MONITORING, RECORDKEEPING, AND REPORTING REQUIREMENTS (CONTINUED)

6. a. In accordance with the provisions of Regulation 401 KAR 50:055, Section 1 the owner or operator shall notify the Division for Air Quality's Regional Office under whose purview the source is located (as listed in Attachment B) concerning startups, shutdowns, or malfunctions as follows:
- 1. When emissions during any planned shutdowns and ensuing startups will exceed the standards notification shall be made no later than three (3) days before the planned shutdown,

- or immediately following the decision to shut down, if the shutdown is due to events which could not have been foreseen three (3) days before the shutdown.
2. When emissions due to malfunctions, unplanned shutdowns and ensuing startups are or may be in excess of the standards notification shall be made as promptly as possible by telephone (or other electronic media) and shall cause written notice upon request.
 - b. In accordance with the provisions of State Regulation 401 KAR 50:035, Section 7(1)(e)2, the owner or operator shall promptly report emissions related deviations from permit requirements including those attributed to upset conditions (other than emission exceedances covered by general condition 6 a. above) within five (5) working days to the Division for Air Quality's Regional Office under whose purview the source is located (as listed in Attachment B). Non-emissions related deviations shall be reported with the semi-annual report required in Section F.5.
7. Pursuant to Regulation 401 KAR 50:035, Permits, Section 7(2)(b), the permittee shall certify compliance with the terms and conditions contained in this permit, annually on the permit issuance anniversary date or by January 30th of each year if calendar year reporting is approved by the regional office, by completing and returning a Compliance Certification Form (DEP 7007CC) (or an approved alternative) to the Division for Air Quality's Regional Office under whose purview the source is located (as listed in Attachment B) and the United States Environmental Protection Agency in accordance with the following requirements:
- a. Identification of each term or condition of the permit that is the basis of the certification;
 - b. The compliance status regarding each term or condition of the permit;
 - c. Whether compliance was continuous or intermittent; and
 - d. The method used for determining the compliance status for the source, currently and over the reporting period, pursuant to 401 KAR 50:035, Section 7(1)(c),(d), and (e).
 - e. A compliance schedule shall be created by the Division (as directed in Section I(2) – Compliance Schedule) for sources with affected facilities not in compliance with applicable requirements at the time of issuance of this permit. Certified progress reports shall be submitted in the same manner as the Compliance Certification Form (DEP 7007CC).
 - f. The certification shall be postmarked by the thirtieth (30) day following the applicable permit issuance anniversary date or by January 30th of each year if calendar year reporting is approved by the regional office. Annual compliance certifications should be mailed to the following addresses:

**Division for Air Quality
Regional Office**
(as listed in Attachment B)

**U.S. EPA Region IV
Air Enforcement Branch
Atlanta Federal Center
61 Forsyth St.
Atlanta, GA 30303-8960**

**Division for Air Quality
Central Files
803 Schenkel Lane
Frankfort, KY 40601**

SECTION F - MONITORING, RECORDKEEPING, AND REPORTING REQUIREMENTS (CONTINUED)

8. In accordance with Regulation 401 KAR 50:035, Section 23, the permittee shall provide the Division with all information necessary to determine its subject emissions within thirty (30) days of the date the KYEIS emission report is mailed to the permittee.
9. Pursuant to Section VII.3 of the policy manual of the Division for Air Quality as referenced by Regulation 401 KAR 50:016, Section 1(1), results of performance test(s) required by the permit shall be submitted to the Division by the source or its representative within forty-five days after the completion of the fieldwork.
10. Natural gas shall be the only fuel burned in the operation of combustion equipment identified as significant points of emission. The permittee shall record the amount of natural gas burned on a monthly basis, with the exception of those Indirect Heat Exchangers commenced after June 9, 1989 that must record the natural gas burned on a daily basis. Furthermore, the permittee shall maintain all records of any changes in equipment or operation. The records required by the Division for Air Quality shall be retained at the source authorized by this permit for a period of five years and shall be made available for inspection upon request by any duly authorized representative of the Division. These records shall be submitted to the Division on an annual basis on the anniversary date of this permit. If the monitoring devices necessary to assure compliance with this requirement are not in place at the issuance of this permit, follow the compliance plan in Section I.

SECTION G - GENERAL CONDITIONS

(a) General Compliance Requirements

1. The permittee shall comply with all conditions of this permit. A noncompliance shall be (a) violation(s) of state regulation 401 KAR 50:035, Permits, Section 7(3)(d) and for federally enforceable permits is also a violation of Federal Statute 42 USC 7401 through 7671q (the Clean Air Act) and is grounds for enforcement action including but not limited to the termination, revocation and reissuance, or revision of this permit.
2. The filing of a request by the permittee for any permit revision, revocation, reissuance, or termination, or of a notification of a planned change or anticipated noncompliance, shall not stay any permit condition.
3. This permit may be revised, revoked, reopened and reissued, or terminated for cause. The permit will be reopened for cause and revised accordingly under the following circumstances:
 - a. If additional applicable requirements become applicable to the source and the remaining permit term is three (3) years or longer. In this case, the reopening shall be completed no later than eighteen (18) months after promulgation of the applicable requirement. A reopening shall not be required if compliance with the applicable requirement is not required until after the date on which the permit is due to expire, unless this permit or any of its terms and conditions have been extended pursuant to Regulation 401 KAR 50:035, Section 12(2)(c);
 - b. The Cabinet or the United States Environmental Protection Agency determines that the permit must be revised or revoked to assure compliance with the applicable requirements;
 - c. The Cabinet or the United States Environmental Protection Agency determines that the permit contains a material mistake or that inaccurate statements were made in establishing the emissions standards or other terms or conditions of the permit;

Proceedings to reopen and reissue a permit shall follow the same procedures as apply to initial permit issuance and shall affect only those parts of the permit for which cause to reopen exists. Reopenings shall be made as expeditiously as practicable. Reopenings shall not be initiated before a notice of intent to reopen is provided to the source by the Division, at least thirty (30) days in advance of the date the permit is to be reopened, except that the Division may provide a shorter time period in the case of an emergency.

4. The permittee shall furnish to the Division, in writing, information that the Division may request to determine whether cause exists for modifying, revoking and reissuing, or terminating the permit, or to determine compliance with the permit. [401 KAR 50:035, Permits, Section 7(2)(b)3e and 401 KAR 50:035, Permits, Section 7(3)(j)]

SECTION G - GENERAL CONDITIONS (CONTINUED)

5. The permittee, upon becoming aware that any relevant facts were omitted or incorrect information was submitted in the permit application, shall promptly submit such supplementary facts or corrected information to the permitting authority.
6. Any condition or portion of this permit that becomes suspended or is ruled invalid as a result of any legal or other action shall not invalidate any other portion or condition of this permit. [401 KAR 50:035, Permits, Section 7(3)(k)]
7. The permittee shall not use as a defense in an enforcement action the contention that it would have been necessary to halt or reduce the permitted activity in order to maintain compliance. [401 KAR 50:035, Permits, Section 7(3)(e)]
8. Except as identified as state-origin requirements in this permit, all terms and conditions contained herein shall be enforceable by the United States Environmental Protection Agency and citizens of the United States.
9. This permit shall be subject to suspension if the permittee fails to pay all emissions fees within 90 days after the date of notice as specified in 401 KAR 50:038, Section 3(6). [401 KAR 50:035, Permits, Section 7(3)(h)]
10. Nothing in this permit shall alter or affect the liability of the permittee for any violation of applicable requirements prior to or at the time of permit issuance. [401 KAR 50:035, Permits, Section 8(3)(b)]
11. This permit shall not convey property rights or exclusive privileges. [401 KAR 50:035, Permits, Section 7(3)(g)]
12. Issuance of this permit does not relieve the permittee from the responsibility of obtaining any other permits, licenses, or approvals required by the Kentucky Natural Resources and Environmental Protection Cabinet or any other federal, state, or local agency.
13. Nothing in this permit shall alter or affect the authority of United States Environmental Protection Agency to obtain information pursuant to Federal Statute 42 USC 7414, Inspections, monitoring, and entry. [401 KAR 50:035, Permits, Section 7(2)(b)5]
14. Nothing in this permit shall alter or affect the authority of United States Environmental Protection Agency to impose emergency orders pursuant to Federal Statute 42 USC 7603, Emergency orders. [401 KAR 50:035, Permits, Section 8(3)(a)]
15. Permit Shield: Except as provided in State Regulation 401 KAR 50:035, Permits, compliance by the affected facilities listed herein with the conditions of this permit shall be deemed to be compliance with all applicable requirements identified in this permit as of the date of issuance of this permit.

SECTION G - GENERAL CONDITIONS (CONTINUED)

16. All previously issued construction and operating permits are hereby null and void.

17. The applicability of the following regulations has been investigated and found not to apply for the following reasons:

Regulation	Reasoning
State Regulation 401 KAR 59:430, Standards of performance for industrial-commercial-institutional steam generating units	Construction date and size restrictions
State Regulation 401 KAR 59:435, Standards of performance for small industrial-commercial-institutional steam generating units	Construction date and size restrictions
State Regulation 401 KAR 59:485, Standards of performance for volatile organic liquid storage vessels (including petroleum liquid storage vessels) for which construction, reconstruction, or modification commenced after July 23, 1984.	Construction date, size, and vapor pressure restrictions
State Regulation 401 KAR 60:042, Standards of performance for industrial-commercial-institutional steam generating units	Construction date and size restrictions

b) Permit Expiration and Reapplication Requirements

This permit shall remain in effect for a fixed term of five (5) years following the original date of issue. Permit expiration shall terminate the source's right to operate unless a timely and complete renewal application has been submitted to the Division at least six months prior to the expiration date of the permit.

Upon a timely and complete submittal, the authorization to operate within the terms and conditions of this permit, including any permit shield shall remain in effect beyond the expiration date, until the renewal permit is issued or denied by the Division. [401 KAR 50:035, Permits, Section 12]

(c) Permit Revisions

1. A minor permit revision procedure may be used for permit revisions involving the use of economic incentive, marketable permit, emission trading, and other similar approaches, to the extent that these minor permit revision procedures are explicitly provided for in the SIP or in applicable requirements and meet the relevant requirements of Regulation 401 KAR 50:035, Section 15.
2. This permit is not transferable by the permittee. Future owners and operators shall obtain a new permit from the Division for Air Quality. The new permit may be processed as an administrative amendment if no other change in this permit is necessary, and provided that a written agreement containing a specific date for transfer of permit responsibility coverage and liability between the current and new permittee has been submitted to the permitting authority thirty (30) days in advance of the transfer.

SECTION G - GENERAL CONDITIONS (CONTINUED)**(d) Construction, Start-Up, and Initial Compliance Certification Requirements**

NOTE: The following section is for construction of emission points and pollutants covered by this permit that are not subject to State Regulation 401 KAR 51:017, Prevention of significant deterioration of air quality, and 401 KAR 51:052, Review of new sources in or impacting upon nonattainment areas.

1. Construction of process and/or air pollution control equipment authorized by this permit shall be conducted and completed only in compliance with the conditions of this permit.
2. Within thirty (30) days following commencement of construction, and within fifteen (15) days following start-up, and attainment of the maximum production rate specified in the permit application, or within fifteen (15) days following the issuance date of this permit, whichever is later, the permittee shall furnish to the Division for Air Quality's Regional Office under whose purview the source is located (as listed in Attachment B) in writing, with a copy to the Division's Frankfort Central Office, notification of the following:
 - a. The date when construction commenced.
 - b. The date of start-up of the affected facilities listed in this permit.
 - c. The date when the maximum production rate specified in the permit application was achieved.
3. Pursuant to State Regulation 401 KAR 50:035, Permits, Section 13(1), unless construction is commenced on or before 18 months after the date of issue of this permit, or if construction is commenced and then stopped for any consecutive period of 18 months or more, or if construction is not completed within eighteen (18) months of the scheduled completion date, then the construction and operating authority granted by this permit for those affected facilities for which construction was not completed shall immediately become invalid. Extensions of the time periods specified herein may be granted by the Division upon a satisfactory request showing that an extension is justified.
4. Operation of the affected facilities for which construction is authorized by this permit shall not commence until compliance with the applicable standards specified herein has been demonstrated pursuant to 401 KAR 50:055, except as provided in Section I of this permit.
5. This permit shall allow time for the initial start-up, operation, and compliance demonstration of the affected facilities listed herein. However, within sixty (60) days after achieving the maximum production rate at which the affected facilities will be operated but not later than 180 days after initial start-up of such facilities, the permittee shall conduct a performance demonstration on the affected facilities in accordance with Regulation 401 KAR 50:055, General compliance requirements. These performance tests must also be conducted in accordance with General Conditions G(d)6 of this permit and the permittee must furnish to the Division for Air Quality's Frankfort Central Office a written report of the results of such performance test.

SECTION G - GENERAL CONDITIONS (CONTINUED)

(d) Construction, Start-Up, and Initial Compliance Certification Requirements (continued)

6. Pursuant to Section VII 2.(1) of the policy manual of the Division for Air Quality as referenced by Regulation 401 KAR 50:016, Section 1.(1), at least one month prior to the date of the required performance test, the permittee shall complete and return a Compliance Test Protocol (Form DEP 6027) to the Division's Frankfort Central Office. Pursuant to 401 KAR 50:045, Section 5, the Division shall be notified of the actual test date at least ten (10) days prior to the test.

e) Acid Rain Program Requirements

NA

f). Emergency Provisions

1. An emergency shall constitute an affirmative defense to an action brought for noncompliance with the technology-based emission limitations if the permittee demonstrates through properly signed contemporaneous operating logs or other relevant evidence that:
 - a) An emergency occurred and the permittee can identify the cause of the emergency;
 - b) The permitted facility was at the time being properly operated;
 - c) During an emergency, the permittee took all reasonable steps to minimize levels of emissions that exceeded the emissions standards or other requirements in the permit; and
 - d) The permittee notified the Division as promptly as possible and submitted written notice of the emergency to the Division within two working days after the time when emission limitations were exceeded due to the emergency. The notice shall meet the requirements of State Regulation 401 KAR 50:035, Permits, Section 7(1)(e), and include a description of the emergency, steps taken to mitigate emissions, and the corrective actions taken. This requirement does not relieve the source of any other local, state or federal notification requirements.
2. Emergency conditions listed in General Condition (f)1 above are in addition to any emergency or upset provision(s) contained in an applicable requirement.
3. In an enforcement proceeding, the permittee seeking to establish the occurrence of an emergency shall have the burden of proof.

SECTION G - GENERAL CONDITIONS (CONTINUED)

4. The permittee may temporarily replace a compressor during emergency incidents which interrupt the crucial supply of natural gas to the public, contingent upon the following conditions:
 - a) The temporary compressor(s) may operate solely while a compressor is being repaired or refurbished. For this requirement, temporary shall not be in excess of ninety (90) days unless prior approval is obtained from the Division.
 - b) The total operating capacity of the temporary units shall not exceed the capacity of the replaced unit.
 - c) If applicable, credible performance emission test data that verify the rates of emissions from the temporary compressor(s), in accordance with the provisions of New Source Performance Standards, shall be submitted to the Division within five (5) days of the substitution for approval.
 - d) Notification of the following data must be submitted to the Director within five (5) days of the substitution:
 - i) Identification (emission source number) of the failed turbine(s),
 - ii) Design Parameters of the temporary compressor(s),
 - iii) Predicted operating time and emissions of the temporary compressor(s), and
 - iv) Certification of the temporary compressor(s) by a responsible official.
- g) Risk Management Provisions under CAA 112(r)

If required by law or regulation, the permittee shall comply with the requirements of 40 CFR Part 68, Risk Management Plan provisions:

 - a) Submit a Risk Management Plan and comply with the Risk Management Program by June 21, 1999 or a later date specified by the U.S. EPA.
 - b) Submit additional relevant information if requested by the Division or U.S. EPA.
- (h) Ozone Depleting Substances
 1. The permittee shall comply with the standards for recycling and emissions reduction pursuant to 40 CFR 82, Subpart F, except as provided for Motor Vehicle Air Conditioners (MVACs) in Subpart B:
 - a) Persons opening appliances for maintenance, service, repair, or disposal shall comply with the required practices contained in 40 CFR 82.156.
 - b) Equipment used during the maintenance, service, repair, or disposal of appliances shall comply with the standards for recycling and recovery equipment contained in 40 CFR 82.158.
 - c) Persons performing maintenance, service, repair, or disposal of appliances shall be certified by an approved technician certification program pursuant to 40 CFR 82.161.
 - d) Persons disposing of small appliances, MVACs, and MVAC-like appliances (as defined at 40 CFR 82.152) shall comply with the Recordkeeping requirements pursuant to 40 CFR 82.166.
 - e) Persons owning commercial or industrial process refrigeration equipment shall comply with the leak repair requirements pursuant to 40 CFR 82.156.
 - f) Owners/operators of appliances normally containing 50 or more pounds of refrigerant shall keep records of refrigerant purchased and added to such appliances pursuant to 40 CFR 82.166.
 2. If the permittee performs service on motor (fleet) vehicle air conditioners containing ozone-depleting substances, the source shall comply with all applicable requirements as specified in 40 CFR 82, Subpart B, Servicing of Motor Vehicle Air Conditioners.

SECTION H – ALTERNATE OPERATING SCENARIOS

NA

SECTION I - COMPLIANCE SCHEDULE

1. If the source is required to install flow monitoring equipment to comply with the requirements of Section F.10, the source must initiate the purchase of equipment within 30 days of the issuance of this permit and install the equipment within 60 days of the issuance of this permit. Exceptions to this time frame will be considered by the Division on a case-by-case basis. To implement any new monitoring, Recordkeeping or reporting requirements included herein, the Division hereby authorizes a ninety (90) day compliance schedule, beginning with issuance of the proposed permit.
2. For non-complying units, a proposed compliance schedule shall be submitted to the Division in accordance with 401 KAR 50:035 Section 5(2)(h)(2)(b) within 90 days of issuance of the proposed permit. The Division will review and approve the schedule on an individual source basis. Compliance with the terms and conditions of this compliance schedule shall be certified annually on the permit anniversary date, to the Division for Air Quality and to the United States Environmental Protection Agency when compliance has been achieved. The compliance certification shall include the following:
 - a) The identification of the permit term or condition in this Section that is the basis of the certification;
 - b) The compliance status;
Whether compliance is continuous or intermittent; and,
 - c) The method used for determining the compliance status, currently and over the reporting period pursuant to State Regulation 50:035, Section 7(1)(c), (d) and (e).